

10/588043

1AP20 Rec'd PCT/PTO 01 AUG 2006

1/2

SEQUENCE LISTING

<110> UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC.

<120> INCREASED STRESS TOLERANCE AND ENHANCED YIELD IN PLANTS

<130> 10457-055PCT

<140> PCT/US05/009047

<141> 2005-03-17

<150> 60/554,041

<151> 2004-03-17

<160> 6

<170> PatentIn Ver. 3.3

<210> 1

<211> 381

<212> DNA

<213> Escherichia coli

<400> 1

atgattcgca cgatgctgca gggcaaactc caccgcgtga aagtgactca tgccgacactg 60  
cactatgaag gttcttgcgc cattgaccag gattttcttg acgcagccgg tattctcgaa 120  
aacgaagcca ttgatatatctg gaatgtcacc aacggcaagc gtttctccac ttatgccatc 180  
gcggcagaac gcgggttcgag aattatttctt gtttaacgggtg cggcggccca ctgcgccagt 240  
gtcggcggata ttgtcatcat cgccagcttc gttaccatgc cagatgaaga agctcgacc 300  
tggcgaccca acgtcgcccta ttttgaaggc gacaatgaaa tgaaacgtac cgcgaaagcg 360  
attccggtaa aggttgcattt a 381

<210> 2

<211> 126

<212> PRT

<213> Escherichia coli

<400> 2

Met Ile Arg Thr Met Leu Gln Gly Lys Leu His Arg Val Val Lys Val Thr  
1 5 10 15

His Ala Asp Leu His Tyr Glu Gly Ser Cys Ala Ile Asp Gln Asp Phe  
20 25 30

Leu Asp Ala Ala Gly Ile Leu Glu Asn Glu Ala Ile Asp Ile Trp Asn  
35 40 45

Val Thr Asn Gly Lys Arg Phe Ser Thr Tyr Ala Ile Ala Ala Glu Arg  
50 55 60

Gly Ser Arg Ile Ile Ser Val Asn Gly Ala Ala Ala His Cys Ala Ser  
65 70 75 80

Val Gly Asp Ile Val Ile Ala Ser Phe Val Thr Met Pro Asp Glu  
85 90 95

Glu Ala Arg Thr Trp Arg Pro Asn Val Ala Tyr Phe Glu Gly Asp Asn  
 100 105 110

Glu Met Lys Arg Thr Ala Lys Ala Ile Pro Val Gln Val Ala  
 115 120 125

<210> 3  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 3  
 ccgagctcga caggtagaa aggtaga

27

<210> 4  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 4  
 ccccatgggg gataacaatc aagcaacc

28

<210> 5  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 5  
 tcatgattcg cacgatgctg ccagg

25

<210> 6  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 6  
 cagctgagca acctgtacccg gaatcgc

27